

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,EPAB,DWPI; PLUR=YES; OP=OR

<u>L22</u>	WO adj 9943794	2	<u>L22</u>
<u>L21</u>	L20 and plant	0	<u>L21</u>
<u>L20</u>	WO adj 9741213	2	<u>L20</u>
<u>L19</u>	L16 and plant	0	<u>L19</u>
<u>L18</u>	L16 and transformation	0	<u>L18</u>
<u>L17</u>	L16 and transgenic	0	<u>L17</u>
<u>L16</u>	WO adj 9743424	2	<u>L16</u>
<u>L15</u>	L14 and plant adj transformation	2	<u>L15</u>
<u>L14</u>	L10 and plant	78	<u>L14</u>
<u>L13</u>	L10 and transformation.ab.	1	<u>L13</u>
<u>L12</u>	L10 and transformation.ab	0	<u>L12</u>
<u>L11</u>	L10 and transformation	93	<u>L11</u>
<u>L10</u>	NCIB adj 11837 and amylase	99	<u>L10</u>
<u>L9</u>	9800269	9	<u>L9</u>

DB=USPT,DWPI; PLUR=YES; OP=OR

<u>L8</u>	DK adj 9800269	0	<u>L8</u>
<u>L7</u>	DK 9800269	1007951	<u>L7</u>
<u>L6</u>	9800269	8	<u>L6</u>

DB=USPT,PGPB,DWPI; PLUR=YES; OP=OR

<u>L5</u>	L2 and amylase.ab.	4	<u>L5</u>
<u>L4</u>	L2 and transformation.ab.	0	<u>L4</u>
<u>L3</u>	L2 and wheat.ab.	0	<u>L3</u>
<u>L2</u>	L1 and transformation and wheat	52	<u>L2</u>
<u>L1</u>	NCIB adj 11837	124	<u>L1</u>

END OF SEARCH HISTORY

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT; PLUR=YES; OP=OR

<u>L25</u>	Kjaerulff-soren-\$.in.	0	<u>L25</u>
<u>L24</u>	vanlose-soren-\$in.	0	<u>L24</u>
<u>L23</u>	nielsen-jack-\$in.	14	<u>L23</u>
<u>L22</u>	4604355	8	<u>L22</u>
<u>L21</u>	4598048	8	<u>L21</u>
<u>L20</u>	4920048	13	<u>L20</u>
<u>L19</u>	L18 and alpha adj amylase	4	<u>L19</u>
<u>L18</u>	L17 and wheat	5	<u>L18</u>
<u>L17</u>	5693506	5	<u>L17</u>

DB=USPT,DWPI; PLUR=YES; OP=OR

<u>L16</u>	9943794	2	<u>L16</u>
<u>L15</u>	9943793	2	<u>L15</u>

DB=USPT; PLUR=YES; OP=OR

<u>L14</u>	9943793	0	<u>L14</u>
<u>L13</u>	WO adj 9943793	0	<u>L13</u>
<u>L12</u>	43793	44	<u>L12</u>

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

<u>L11</u>	5693506	6	<u>L11</u>
<u>L10</u>	L9 and amylase.clm.	4	<u>L10</u>
<u>L9</u>	L8 and transgenic.clm.	47	<u>L9</u>
<u>L8</u>	L7 and wheat.clm.	104	<u>L8</u>
<u>L7</u>	wheat and alpha adj amylase and transformation	750	<u>L7</u>
<u>L6</u>	L3 and transformation.clm.	8	<u>L6</u>
<u>L5</u>	5712112	10	<u>L5</u>
<u>L4</u>	L3 and transgenic.clm.	19	<u>L4</u>
<u>L3</u>	wheat and beta adj amylase	518	<u>L3</u>

DB=USPT; PLUR=YES; OP=OR

<u>L2</u>	Wo adj 200029591	0	<u>L2</u>
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DB=DWPI; PLUR=YES; OP=OR

<u>L1</u>	Wo adj 029591	0	<u>L1</u>
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END OF SEARCH HISTORY

\$%^STN;HighlightOn= ***;HighlightOff=*** ;

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Welcome to STN International! Enter x:x

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PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
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NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
 saved answer sets no longer valid
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 now available on STN
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NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
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NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
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NEWS 28 Oct 24 BEILSTEIN adds new search fields
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NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
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NEWS 34 Dec 04 CSA files on STN
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NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available

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| NEWS 39 | Jan 21 | NUTRACEUT offering one free connect hour in February 2003 |
| NEWS 40 | Jan 21 | PHARMAML offering one free connect hour in February 2003 |
| NEWS 41 | Jan 29 | Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC |
| NEWS 42 | Feb 13 | CANCERLIT is no longer being updated |
| NEWS 43 | Feb 24 | METADEX enhancements |
| NEWS 44 | Feb 24 | PCTGEN now available on STN |
| NEWS 45 | Feb 24 | TEMA now available on STN |
| NEWS 46 | Feb 26 | NTIS now available on STN |
| NEWS 47 | Feb 26 | NTIS now allows simultaneous left and right truncation |
| NEWS 48 | Mar 04 | PCTFULL now contains images |
| NEWS 49 | Mar 19 | SDI PACKAGE for monthly delivery of multifile SDI results |
| NEWS 50 | Mar 20 | APOLLIT offering free connect time in April 2003 |
| NEWS 51 | Mar 24 | EVENTLINE will be removed from STN |
| NEWS 52 | Mar 24 | PATDPAFULL now available on STN |
| NEWS 53 | Mar 24 | Additional information for trade-named substances without
structures available in REGISTRY |
| NEWS EXPRESS | | Indexing from 1957 to 1966 added to records in CA/CAPLUS |
| NEWS HOURS | | January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002 |
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=> file agricola biosis embase caplus
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| COST IN U.S. DOLLARS | | SINCE FILE
ENTRY | TOTAL
SESSION |
|----------------------|--|---------------------|------------------|
| FULL ESTIMATED COST | | 0.21 | 0.21 |

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=> s ncib(w) 11837
L1 4 NCIB(W) 11837

=> d 11 1-4

L1 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1986:384744 BIOSIS
DN BR31:70364
TI MALTGENIC AMYLASE ENZYME PREPARATION AND USE THEREOF.
AU OUTTRUP H
CS SYVENDEHUSVEJ, DENMARK.
ASSIGNEE: NOVO INDUSTRI A/S
PI US 4604355 05 Aug 1986
SO Off. Gaz. U. S. Pat. Trademark Off., Pat., (1986) 1069 (1), 323.
CODEN: OGUPET. ISSN: 0098-1133.
DT Patent
FS BR; OLD
LA English

L1 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
AN 2000:351675 CAPLUS
DN 133:1485
TI Transgenic cereal plant expressing maltogenic amylase gene and
anti-staling effect in baking application
IN Nielsen, Jack Bech; Kjaerulff, Soren
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------|-----------------|---|----------|-----------------|----------|
| PI | WO 2000029591 | A1 | 20000525 | WO 1999-DK624 | 19991112 |
| | W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | EP 1137788 | A1 | 20011004 | EP 1999-955838 | 19991112 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | |
| PRAI | DK 1998-1478 | A | 19981112 | | |
| | US 1999-123643P | P | 19990310 | | |
| | WO 1999-DK624 | W | 19991112 | | |
| RE.CNT | 12 | THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | |

L1 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 1999:566161 CAPLUS
 DN 131:181666
 TI Maltogenic .alpha.-amylase variants with altered properties
 IN Cherry, Joel Robert; Svendsen, Allan; Andersen, Carsten; Beier, Lars;
 Frandsen, Torben Peter
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 146 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|--|----------|-----------------|----------|
| PI | WO 9943794 | A1 | 19990902 | WO 1999-DK88 | 19990226 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM | RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | CA 2321595 | AA | 19990902 | CA 1999-2321595 | 19990226 |
| | AU 9925129 | A1 | 19990915 | AU 1999-25129 | 19990226 |
| | BR 9908281 | A | 20001031 | BR 1999-8281 | 19990226 |
| | EP 1058724 | A1 | 20001213 | EP 1999-904736 | 19990226 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI | | | | |
| | NZ 505820 | A | 20021025 | NZ 1999-505820 | 19990226 |
| | US 6162628 | A | 20001219 | US 1999-386607 | 19990831 |
| PRAI | DK 1998-269 | A | 19980227 | | |
| | US 1998-77795P | P | 19980312 | | |
| | WO 1999-DK88 | W | 19990226 | | |

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:566160 CAPLUS
 DN 131:196369
 TI Novamyl and cyclodextrin glucanotransferase variants with altered
catalytic properties
 IN Cherry, Joel Robert; Svendsen, Allan; Andersen, Carsten; Beier, Lars;
Frandsen, Torben Peter; Schaefer, Thomas
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PI | WO 9943793 | A1 | 19990902 | WO 1999-DK87 | 19990226 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, | | | | |

TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2320813 AA 19990902 CA 1999-2320813 19990226
 AU 9925128 A1 19990915 AU 1999-25128 19990226
 EP 1066374 A1 20010110 EP 1999-904735 19990226
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 US 6482622 B1 20021119 US 2000-645707 20000824
 US 2003059902 A1 20030327 US 2002-234266 20020904
 PRAI DK 1998-269 A 19980227
 DK 1998-273 A 19980227
 US 1998-77509P P 19980311
 US 1998-77795P P 19980312
 WO 1999-DK87 W 19990226
 US 2000-645707 A3 20000824
 RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s MALTOGENIC(w) AMYLASE(w) ENZYME
 L2 4 MALTOGENIC(W) AMYLASE(W) ENZYME

=> d 12 1-4

L2 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 1986:384744 BIOSIS
 DN BR31:70364
 TI ***MALTOGENIC*** ***AMYLASE*** ***ENZYME*** PREPARATION AND
 USE THEREOF.
 AU OUTTRUP H
 CS SYVENDEHUSVEJ, DENMARK.
 ASSIGNEE: NOVO INDUSTRI A/S
 PI US 4604355 05 Aug 1986
 SO Off. Gaz. U. S. Pat. Trademark Off., Pat., (1986) 1069 (1), 323.
 CODEN: OGUPE7. ISSN: 0098-1133.
 DT Patent
 FS BR; OLD
 LA English

L2 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 1986:326768 BIOSIS
 DN BR31:41350
 TI PREPARATION OF A ***MALTOGENIC*** ***AMYLASE*** ***ENZYME*** .
 AU DIDERICHSEN B K; CHRISTIANSEN L
 CS HELLERUP, DENMARK.
 ASSIGNEE: NOVO INDUSTRI A/S
 PI US 4598048 01 Jul 1986
 SO Off. Gaz. U. S. Pat. Trademark Off., Pat., (1986) 1068 (1), 324.
 CODEN: OGUPE7. ISSN: 0098-1133.
 DT Patent
 FS BR; OLD
 LA English

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:736355 CAPLUS

DN 137:246620
 TI Improved fermentation process
 IN Olsen, Hans Sejr; Pedersen, Sven; Beckerich, Robert; Veit, Christopher;
 Felby, Claus
 PA Novozymes A/S, Den.; Novozymes North America, Inc
 SO PCT Int. Appl., 38 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 2002074895 | A2 | 20020926 | WO 2002-DK179 | 20020319 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRAI | US 2001-277383P | P | 20010319 | | |
| | US 2001-277384P | P | 20010319 | | |
| | US 2001-304380P | P | 20010710 | | |

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
 AN 1985:60788 CAPLUS
 DN 102:60788
 TI ***Maltogenic*** ***amylase*** ***enzyme*** product, and its
 use
 IN Outtrup, Helle; Diderichsen, Boerge Krag; Christiansen, Lars
 PA Novo Industri A/S, Den.
 SO Eur. Pat. Appl., 32 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | EP 120693 | A1 | 19841003 | EP 1984-301994 | 19840323 |
| | EP 120693 | B1 | 19890531 | | |
| | R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| | US 4598048 | A | 19860701 | US 1984-591461 | 19840320 |
| | US 4604355 | A | 19860805 | US 1984-591460 | 19840320 |
| | DK 8401610 | A | 19840926 | DK 1984-1610 | 19840321 |
| | DK 153799 | B | 19880905 | | |
| | DK 153799 | C | 19890123 | | |
| | AT 43634 | E | 19890615 | AT 1984-301994 | 19840323 |
| | JP 60002185 | A2 | 19850108 | JP 1984-56379 | 19840326 |
| | JP 04072505 | B4 | 19921118 | | |
| | CA 1214407 | A1 | 19861125 | CA 1984-450515 | 19840326 |
| PRAI | DK 1983-1359 | | 19830325 | | |
| | EP 1984-301994 | | 19840323 | | |

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|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 23.70 | 23.91 |

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PASSWORD:

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| NEWS 5 Apr 19 | US Patent Applications available in IFICDB, IFIPAT, and IFIUDB |
| NEWS 6 Apr 22 | Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS |
| NEWS 7 Apr 22 | BIOSIS Gene Names now available in TOXCENTER |
| NEWS 8 Apr 22 | Federal Research in Progress (FEDRIP) now available |
| NEWS 9 Jun 03 | New e-mail delivery for search results now available |
| NEWS 10 Jun 10 | MEDLINE Reload |
| NEWS 11 Jun 10 | PCTFULL has been reloaded |
| NEWS 12 Jul 02 | FOREGE no longer contains STANDARDS file segment |
| NEWS 13 Jul 22 | USAN to be reloaded July 28, 2002;
saved answer sets no longer valid |
| NEWS 14 Jul 29 | Enhanced polymer searching in REGISTRY |
| NEWS 15 Jul 30 | NETFIRST to be removed from STN |
| NEWS 16 Aug 08 | CANCERLIT reload |
| NEWS 17 Aug 08 | PHARMAMarketLetter(PHARMAML) - new on STN |
| NEWS 18 Aug 08 | NTIS has been reloaded and enhanced |
| NEWS 19 Aug 19 | Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN |
| NEWS 20 Aug 19 | IFIPAT, IFICDB, and IFIUDB have been reloaded |

NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 42 Feb 13 CANCERLIT is no longer being updated
NEWS 43 Feb 24 METADEX enhancements
NEWS 44 Feb 24 PCTGEN now available on STN
NEWS 45 Feb 24 TEMA now available on STN
NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 47 Feb 26 PCTFULL now contains images
NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
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NEWS 50 Mar 20 EVENTLINE will be removed from STN
NEWS 51 Mar 24 PATDPAFULL now available on STN
NEWS 52 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
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=> s alpha(w)amylase and maltogenic and bacillus and cDNA
L1 1 ALPHA(W) AMYLASE AND MALTOGENIC AND BACILLUS AND CDNA

=> d 11 1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AN 1999:783872 CAPLUS
DN 132:11821
TI Methods for using xyloglucan endotransglycosylase in baking
IN Ilum Nielsen, Ruby
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|---|----------|-----------------|----------|
| PI WO 9962343 | A1 | 19991209 | WO 1999-DK277 | 19990521 |
| W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| CA 2328137 | AA | 19991209 | CA 1999-2328137 | 19990521 |
| AU 9940299 | A1 | 19991220 | AU 1999-40299 | 19990521 |
| EP 1082017 | A1 | 20010314 | EP 1999-923404 | 19990521 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI | | | |

PRAI DK 1998-749 A 19980529
US 1998-88096P P 19980605
WO 1999-DK277 W 19990521

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11 1 ab

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AB The present invention relates to methods for prepg. a dough, comprising incorporating into the dough a compn. comprising an effective amt. of an xyloglucan endotransglycosylase (XET) which improves one or more properties of the dough or a baked product obtained from the dough. The present invention also relates to methods for prepg. a baked product. The present invention also relates to compns. comprising an effective amt. of an XET for improving one or more properties of a dough and/or a baked product obtained from the dough. The present invention further relates to doughs or baked products and to pre-mixes for a dough. Finally, the cloning and expression an an XET from Tiarosporella phaseolina is described.

=> s amylase and maltogenic and bacillus and cDNA
L2 1 AMYLASE AND MALTOGENIC AND BACILLUS AND CDNA

=> d 12 1 ab

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AB The present invention relates to methods for prepg. a dough, comprising incorporating into the dough a compn. comprising an effective amt. of an xyloglucan endotransglycosylase (XET) which improves one or more properties of the dough or a baked product obtained from the dough. The present invention also relates to methods for prepg. a baked product. The present invention also relates to compns. comprising an effective amt. of an XET for improving one or more properties of a dough and/or a baked product obtained from the dough. The present invention further relates to doughs or baked products and to pre-mixes for a dough. Finally, the cloning and expression an an XET from Tiarosporella phaseolina is described.

=> s transform? and wheat and amylase and malt
L3 8 TRANSFORM? AND WHEAT AND AMYLASE AND MALT

=> duplicate remove 13
PROCESSING COMPLETED FOR L3
L4 8 DUPLICATE REMOVE L3 (0 DUPLICATES REMOVED)

=> d 13 1-8 ti

L3 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Self-processing transgenic plants and plant parts expressing hyperthermophilic processing enzymes

L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Expression system for seed proteins

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Protein and cDNA sequences of .epsilon.1 hordein from barley,
wheat , and/or rye, and uses thereof to enhance the quality of
foam
in beer

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Malting process for the production of degradation and/or conversion
products of storage substances present in transgenic plant material

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Process for protein production in plants

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Genetic engineering and plant breeding, especially cereals

L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Sources of beta- ***amylase*** as supplements to barley ***malts***
in saccharification and fermentation

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Action of enzymes upon starches of different origin

=> d 13 8 ibib ab

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1919:11827 CAPLUS
DOCUMENT NUMBER: 13:11827
ORIGINAL REFERENCE NO.: 13:2297e-i
TITLE: Action of enzymes upon starches of different origin
AUTHOR(S): Sherman, H. C.; Walker, Florence; Caldwell, Mary L.
SOURCE: J. Am. Chem. Soc. (1919), 41, 1123-9
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The starches were prepd. from ***wheat*** flour, corn meal, white rice
and mature potatoes in 4 ways: (1) Washing with H₂O only, (2) with very
dil. alkali, (3) with Et₂O after washing with H₂O, and (4) with Et₂O after
washing with alkali. The action of saliva, pancreatin, purified
pancreatic ***amylase*** , ***malt*** ext., purified ***malt***
amylase , taka-diastase and purified ***amylase*** of
Aspergillus oryzae on these starches was studied by allowing the enzyme to
act upon a 1% dispersion of the boiled starch for 30 min. at 40.degree.,
using such an amt. of the enzyme soln. as would result in the formation of
about 1/3 to 1/2 of the theoretically possible amt. of maltose, and detg.
the reducing sugar formed by titration with Fehling soln. It was found
that, when similarly purified by washing with very dil. alkali,
wheat , maize and rice starches show the same digestibility in the
sense that under the action of the same kind and amt. of ***amylase***
they are all ***transformed*** into reducing sugar at essentially the
same rate. When washed with H₂O only, potato starch is almost pure but
the cereal starches seem to contain enough fatty or waxy matter to
interfere appreciably with the action of the enzymes even after the starch
has been dispersed by boiling in H₂O 3 min. This is true to a greater
extent of maize than of ***wheat*** starch. Potato starch in general

shows a rate of enzymic hydrolysis equal to or slightly greater than that of the cereal starches, the only case in which it showed a distinctly lower rate of hydrolysis being one in which both the starch and the enzyme were highly purified; this tendency to abnormally low results is readily corrected by suitable additions to the digestion mixt., as will be shown in a subsequent paper.

=> d 13 1

L3 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 2003:173758 CAPLUS
TI Self-processing transgenic plants and plant parts expressing hyperthermophilic processing enzymes
IN Lanahan, Michael B.; Basu, Shib Sankar; Batie, Christopher J.; Chen, Wen; Craig, Joyce; Kinkema, Mark
PA Syngenta Participations A.-G., Switz.
SO PCT Int. Appl., 158 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| PI WO 2003018766 | A2 | 20030306 | WO 2002-US27129 | 20020827 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG | | | | |

PRAI US 2001-315281P P 20010827

=> d 13 2

L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 2002:637802 CAPLUS
DN 137:180781
TI Expression system for seed proteins
IN Huang, Ning; Yang, Daichang
PA Ventrion Bioscience, USA
SO PCT Int. Appl., 230 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 6

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------|------|----------|---|----------|
| PI WO 2002064750 | A2 | 20020822 | WO 2002-US4909 | 20020214 |
| WO 2002064750 | A3 | 20021121 | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, | |

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 PRAI US 2001-269188P P 20010214
 US 2001-269199P P 20010214
 US 2001-847232 A2 20010502

=> d 13 3

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:175936 CAPLUS
 DN 132:218010
 TI Protein and cDNA sequences of .epsilon.1 hordein from barley,
 wheat , and/or rye, and uses thereof to enhance the quality of
 foam
 in beer
 IN Vaag, Pia; Bech, Lene Molskov; Cameron-Mills, Varena; Sorensen, Mikael
 Blom
 PA Den.
 SO PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|---------------|---|----------|-----------------|----------|
| PI | WO 2000014237 | A2 | 20000316 | WO 1999-IB1597 | 19990902 |
| | WO 2000014237 | A3 | 20000831 | | |
| | W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
CU, CZ, CZ, DE, DE, DK, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | CA 2341760 | AA | 20000316 | CA 1999-2341760 | 19990902 |
| | AU 9956451 | A1 | 20000327 | AU 1999-56451 | 19990902 |
| | EP 1108031 | A2 | 20010620 | EP 1999-943182 | 19990902 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI,
LT, LV, FI, RO | | | |
| PRAI US 1998-146703 | A2 | 19980903 | | | |
| US 1999-115756P | P | 19990113 | | | |
| WO 1999-IB1597 | W | 19990902 | | | |

=> d 13 4

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS
 AN 1997:618201 CAPLUS

DN 127:260314
 TI Malting process for the production of degradation and/or conversion products of storage substances present in transgenic plant material
 IN Sarx, Hans-georg; Diefenthal, Thomas; Wolf, Norbert
 PA Friedrich Weissheimer Malzfabrik, Germany; Sarx, Hans-Georg; Diefenthal, Thomas; Wolf, Norbert
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| PI WO 9732986 | A2 | 19970912 | WO 1997-EP1255 | 19970305 |
| WO 9732986 | A3 | 19971120 | | |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| CA 2248023 | AA | 19970912 | CA 1997-2248023 | 19970305 |
| AU 9720266 | A1 | 19970922 | AU 1997-20266 | 19970305 |
| AU 715778 | B2 | 20000210 | | |
| ZA 9701885 | A | 19971016 | ZA 1997-1885 | 19970305 |
| EP 885304 | A2 | 19981223 | EP 1997-908223 | 19970305 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI | | | | |
| JP 2001501451 | T2 | 20010206 | JP 1997-531482 | 19970305 |
| PRAI EP 1996-103413 | A | 19960305 | | |
| WO 1997-EP1255 | W | 19970305 | | |

=> d 13 4 ab

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS
 AB Disclosed is a method to facilitate the degrdn. of plant storage substances (starch, fat, etc.) by subjecting transgenic plant materials in a malting process, which transgenic plant expresses an enzyme that is active on degrading the storage substance(s), to obtain a degrdn. product such as cyclodextrins. A plant expression plasmid encoding cyclodextrin glycosyltransferase (CGTase) of Klebsiella pneumoniae or Bacillus macerans was prep'd., which expression is under the control of barley .alpha.-***amylase*** promoter or the maize polyubiquitin promoter, and used for the ***transformation*** of ***wheat*** or barley. The seeds harvested from the stably ***transformed*** ***wheat*** or barley plants were treated by: (1) steeping to produce chit ***malt***; (2) transferring the chit ***malt*** into a germination box to allow the seeds germinate to produce green ***malt*** expressing CGTase; and (3) converting starch with ***amylase*** into amylose which is subsequently converted into cyclodextrins by CGTase. The malted transgenic plant materials and/or malting soln. may be useful as a nutrient, pharmaceutical, or prophylactic compn.

=> d 13 5

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 1995:777890 CAPLUS
DN 123:162774
TI Process for protein production in plants
IN Rodriguez, Raymond L.
PA University of California, USA
SO PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|--|----------|-----------------|----------|
| PI | WO 9514099 | A2 | 19950526 | WO 1994-US13179 | 19941115 |
| | WO 9514099 | A3 | 19950908 | | |
| | W: | AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB,
GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,
NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN | | | |
| | RW: | KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU,
MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN,
TD, TG | | | |
| | US 5693506 | A | 19971202 | US 1993-153563 | 19931116 |
| | CA 2176834 | AA | 19950526 | CA 1994-2176834 | 19941115 |
| | AU 9512892 | A1 | 19950606 | AU 1995-12892 | 19941115 |
| | AU 703288 | B2 | 19990325 | | |
| | EP 788550 | A2 | 19970813 | EP 1995-904067 | 19941115 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | |
| | JP 09509565 | T2 | 19970930 | JP 1994-514569 | 19941115 |
| | US 5994628 | A | 19991130 | US 1995-460507 | 19950602 |
| PRAI | US 1993-153563 | | 19931116 | | |
| | WO 1994-US13179 | | 19941115 | | |

=> d 13 6

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 1993:621539 CAPLUS
DN 119:221539
TI Genetic engineering and plant breeding, especially cereals
AU von Wettstein, Diter
CS Dep. Physiol., Carlsberg Lab., Copenhagen Valby, DK-2500, Den.
SO Food Reviews International (1993), 9(3), 411-22
CODEN: FRINEL; ISSN: 8755-9129
DT Journal; General Review
LA English

=> d 13 6 ab

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
AB A review with 41 refs. Over the last 5000 yr, cereals have been bred for
food, feed, and beverages by selection of spontaneous mutations and random
hybrids. Since the turn of the century, crosses with defined parents, and
since 1927 artificially induced mutations, have been used to create

variability on which selection of new varieties is based. It is pointed out that hybrid corn and transfer of rust-resistant genes from wild species into chromosomes of bread ***wheat*** was preceded by decades of basic research. Genetic ***transformation*** is an addnl. tool for the breeder to introduce novel genes in a rational manner and will complement but not replace the existing efficient breeding methods.

Genetic ***transformation*** has been demonstrated in maize, rice, and ***wheat***, while techniques to obtain transgenic barley plants are still being developed. The authors' present knowledge on the endosperm-specific expression of storage proteins and the modulation of this expression by transcriptional activators is reviewed. Breeding strategies for altered protein quality and for proanthocyanidin-free malting barley are presented. Engineering of an improved ***malt*** enzyme, a heat stable (1-3, 1-4)-.beta.-glucanase, is described. The enzyme is expected to survive, like .alpha.- ***amylases***, the kilning process and has been shown to act efficiently in the mashing process for the elimination of water-sol. .beta.-glucans which impede filtration of wort. The engineered enzyme is expressed in ***transformed*** aleurone protoplasts and secreted from these cells

and

thus shown to be operational in the tissue, where it is expected to work. Hormone-regulated promoters for the expression of genes acting during grain development and malting have been characterized. Prospects for the prodn. of polyhydroxyalkanoates and cyclodextrins in cereal grains are discussed.

=> d 13 7 ibib ab

L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1947:12434 CAPLUS

DOCUMENT NUMBER: 41:12434

ORIGINAL REFERENCE NO.: 41:2532a-d

TITLE: Sources of beta- ***amylase*** as supplements to barley ***malts*** in saccharification and fermentation

AUTHOR(S): Schwimmer, Sigmund

CORPORATE SOURCE: U.S. Dept. Agr. Albany, Agr. Research Administration, CA

SOURCE: Ceram. Chem. (1947), 24, 70-8

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The concomitant saccharifying action on starch of 8 different barley ***malts*** in the presence of sweet potatoes, dry sweet-potato juice, sulfite ext., and aq. ext. of ***wheat*** flour, each as a supplementary source of .beta.- ***amylase***, was detd. The rate of reaction was proportional to the enzyme concn. up to 33% starch conversion for flour ***amylase*** and not more than 50% starch conversion for sweet-potato ***amylase***. Within these limits, it was found that the calcd. activity of ***malt*** and flour mixts. is about the same as the experimentally detd. activity, whereas the latter value tends to be higher than that calcd. for mixts. of sweet potato and ***malts*** high in .alpha.- ***amylase*** activity. Mixts. of ***malts*** and supplement in equiamylolytic amts. in fermentation tests gave higher alc. yield for the sweet-potato-supplemented mashes. These results, which consistently demonstrate more extensive action in the presence of sweet potato, are consistent with the demonstration of appreciable concn. of

nonamylolytic enzymes therein concerned with sugar ***transformation***

=> d 13 8

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 1919:11827 CAPLUS
DN 13:11827
OREF 13:2297e-i
TI Action of enzymes upon starches of different origin
AU Sherman, H. C.; Walker, Florence; Caldwell, Mary L.
SO J. Am. Chem. Soc. (1919), 41, 1123-9
 CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA Unavailable

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| | 48.55 | 48.76 |
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| CA SUBSCRIBER PRICE | ENTRY | SESSION |
| | -3.91 | -3.91 |

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